Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend claims 10 and 14.

- 1. (Original) A non-aqueous electrolyte comprising:
 - a cyclic carbonate;
 - a lithium salt; and
- a polyether-modified silicon oil represented by formulas 1 or 2 in which a polyether chain is bonded to a terminal end of a linear polysiloxane chain:

$$R_{2} - Si - O \leftarrow \begin{pmatrix} R_{3} & R_{5} \\ | & | \\ Si - O \end{pmatrix} + \begin{pmatrix} R_{3} & R_{5} \\ | & | \\ R_{7} & R_{4} & (CH_{2})_{m} - O - (C_{2}H_{4}O)_{n} - Z_{(2)} \end{pmatrix}$$

where k is an integer from 0 to 10;

m is a natural number from 2 to 4;

n is a natural number from 1 to 4;

 R_1 to R_7 are independently or identically, selected from hydrogen or C_1 to C_5 alkyls; and Z is CH_3 or C_2H_5 .

- 2. (Original) The electrolyte of claim 1, wherein the polyether-modified silicon oil has a viscosity of less than 10cSt at 25°C.
- 3. (Original) The electrolyte of claim 1, wherein the polyether-modified silicon oil has a flash point of 120°C or more.
 - 4. (Original) The electrolyte of claim 1 further comprising a chain carbonate.
- 5. (Original) The electrolyte of claim 1 further comprising a fluorinated cyclic carbonate.
 - 6. (Original) A rechargeable lithium battery comprising:
 - a positive electrode;
 - a negative electrode; and
- a polyether-modified silicon oil represented by formulas 1 or 2 in which a polyether chain is bonded to a terminal end of a linear polysiloxane chain, a cyclic carbonate and a lithium salt:

$$R_{2} = S_{1} - O + \begin{pmatrix} R_{3} & R_{5} \\ | & | \\ S_{1} - O + S_{1} - O \end{pmatrix} + \begin{pmatrix} R_{5} & R_{5} \\ | & | \\ R_{4} & (CH_{2})_{m} - O - (C_{2}H_{4}O)_{n} - Z \end{pmatrix}$$

$$(CH_{2})_{m} - O - (C_{2}H_{4}O)_{n} - Z$$

$$(1)$$

where k is an integer from 0 to 10;

m is a natural number from 2 to 4;

n is a natural number from 1 to 4;

 R_1 to R_7 are independently or identically, selected from hydrogen or C_1 to C_5 alkyls; and Z is CH_3 or C_2H_5 .

- 7. (Original) The rechargeable lithium battery of claim 6, wherein the negative electrode comprises a thin layer comprising a compound selected from the group consisting of polyacrylate compounds, aziridine compounds, fluorinated cyclic carbonates and mixtures thereof.
- 8. (Original) The rechargeable lithium battery of claim 6, wherein the non-aqueous electrolyte further comprises a chain carbonate.
- 9. (Original) The rechargeable lithium battery claim 6, wherein the non-aqueous electrolyte further comprises a fluorinated cyclic carbonate.
- 10. (Original) An electrolyte for a rechargeable lithium battery comprising:
 a polyether-modified silicon oil having a viscosity of less than 10cSt, a cyclic carbonate,
 and a lithium salt, wherein the polyether-modified silicon oil includes end silicons, wherein at
 least one end Si atom includes a terminal bond to a polyether group.

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- 11. (Original) The electrolyte of claim 10, wherein the polyether-modified silicon oil has a flash point of 120°C or more.
 - 12. (Original) The electrolyte of claim 10 further comprising a chain carbonate.
- 13. (Original) The electrolyte of claim 10 further comprising a fluorinated cyclic carbonate.
 - 14. (Previously Presented) A rechargeable lithium battery comprising: a positive electrode;
 - a negative electrode; and

an electrolyte comprising a polyether-modified silicon oil having a viscosity of less than 10cSt, a cyclic carbonate, and a lithium salt wherein the polyether-modified silicon oil includes end silicons with terminal bonds consisting of Si-C or Si-H bonds and wherein at least one end Si atom includes a terminal bond to a polyether group.

- 15. (Original) The rechargeable lithium battery of claim 14, wherein the negative electrode comprises a thin layer comprising a compound selected from the group consisting of polyacrylate compounds, aziridine compounds, and fluorinated cyclic carbonates, or a combination thereof on a surface thereof.
- 16. (Original) The rechargeable lithium battery of claim 14, wherein the electrolyte further comprises a chain carbonate.
- 17. (Original) The rechargeable lithium battery claim 14, wherein the electrolyte further comprises a fluorinated cyclic carbonate.